

Pre-Lab Exercise for *Introduction to Electrical Measurements*

1. According to the Preface to the Lab Manual, a basic understanding of the principles of electricity and magnetism might save your _____ or save you a lot of _____.
2. Our first goal in this laboratory is to learn _____.
3. Our second goal in this laboratory is to learn _____.
4. Our third goal in this laboratory is to learn _____.
5. Our fourth goal in this laboratory is to learn _____.
6. Our fifth goal in this laboratory is to learn _____.
7. Our sixth goal in this laboratory is to learn _____.
8. Define voltage.
9. List the three instruments that will be used to measure voltage in this laboratory.

10. Current doesn't flow, _____ does.
11. Discuss how the magnitude and direction of electric current are defined.
12. What is a circuit?
13. The only instrument that will be used to measure electric current in this laboratory is the _____.
14. Define resistance.
15. List the three ways that resistance will be determined in this laboratory.